



# SEQUENCE LISTING

<10> Theratechnologies

<120> Uses of Synthetic Peptides For  
Modulating G-Protein Coupled Receptors

<130> 1096-105US2CIP

<140> US 10/678,413

<141> 1999-09-15

<150> US 09/154,627

<151> 1998-09-17

<160> 163

<170> FastSEQ for Windows Version 4.0

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<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 1

Ile Leu Gly His Arg Asp Tyr Lys

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<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 2

Trp Glu Asp Arg Phe Tyr Leu Leu

1

5

<210> 3

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin

## F2-alpha Receptor

<400> 3

Tyr Gln Asp Arg Phe Tyr Leu Leu  
1 5

<210> 4

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 4

Ile Leu Ala His Arg Asp Tyr Lys  
1 5

<210> 5

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 5

Ile Leu Gly Phe Arg Asp Tyr Lys  
1 5

<210> 6

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 6

Ile Leu Gly His Lys Asp Tyr Lys  
1 5

<210> 7

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 7

Ile Leu Gly His Arg Asn Tyr Lys  
1 5

<210> 8

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 8

Ile Leu Gly His Gln Asp Tyr Lys  
1 5

<210> 9

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 9

Ile Leu Gly His Arg Asp Tyr  
1 5

<210> 10

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<400> 10

Ile Leu Gly Trp Arg Asp Tyr Lys  
1 5

<210> 11

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Prostaglandin  
F2-alpha Receptor

<221> SITE  
 <222> (4)...(4)  
 <223> Xaa = cyclohexyl alanine  
  
 <400> 11  
 Ile Leu Gly Xaa Arg Asp Tyr Lys  
 1 5  
  
 <210> 12  
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 F2-alpha Receptor  
  
 <400> 12  
 Ser Asn Val Leu Cys Ser Ile Phe  
 1 5  
  
 <210> 13  
 <211> 9  
 <212> PRT  
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 <223> peptide derived from the sequence of Urotensin  
 Receptor  
  
 <400> 13  
 Leu Ala Met Arg Leu Val Arg Arg Gly  
 1 5  
  
 <210> 14  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Urotensin  
 Receptor  
  
 <400> 14  
 Val Ile Arg Ala Thr Arg Pro Ala Leu  
 1 5  
  
 <210> 15  
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 <213> Artificial Sequence  
  
 <220>

<223> peptide derived from the sequence of Glucagon  
Receptor

<400> 15

Leu Val Ile Asp Gly Leu Leu Arg Thr  
1 5

<210> 16

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Glucagon  
Receptor

<400> 16

Ala Ala Val Arg Cys Gly Ala Val  
1 5

<210> 17

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Glucagon  
Receptor

<400> 17

Phe Val Thr Asp Glu His Ala Gln  
1 5

<210> 18

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of R14 Orphan  
Receptor (AAL86878)

<400> 18

His Ile Ile Cys Ser Pro Leu Arg  
1 5

<210> 19

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of R14 Orphan

Receptor (AAL86878)

<400> 19

Ile Phe Phe Asp Ser Thr Glu Cys Trp  
1 5

<210> 20

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Platelet  
Activating Factor (PAF) Receptor

<400> 20

Leu Val Pro Val Ser Gly Lys Glu Tyr  
1 5

<210> 21

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Platelet  
Activating Factor (PAF) Receptor

<400> 21

Phe Leu Thr Tyr Arg Phe Glu Ser  
1 5

<210> 22

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Platelet  
Activating Factor (PAF) Receptor

<400> 22

Asn Gly Gln Asn Gln Tyr Tyr Val  
1 5

<210> 23

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Platelet

Activating Factor (PAF)Receptor

<400> 23

Gly Ala Val Asn Cys Leu Phe Lys

1

5

<210> 24

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Platelet  
Activating Factor (PAF)Receptor

<400> 24

Val Thr Asn Thr Ser Asp Leu Val

1

5

<210> 25

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Platelet  
Activating Factor (PAF)Receptor

<400> 25

Leu Glu Ala Leu Thr Trp Pro Leu

1

5

<210> 26

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Platelet  
Activating Factor (PAF)Receptor

<400> 26

Leu Cys Leu Thr Val Gln His Ala Asp

1

5

<210> 27

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor

<400> 27  
Asn Ile Tyr Lys Phe Ala Ser Thr  
1 5

<210> 28  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor

<400> 28  
Lys Phe Val Asn Ile Pro Leu Asp Ile Val  
1 5 10

<210> 29  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor

<400> 29  
Phe Leu Lys Cys Leu Phe Val Gly  
1 5

<210> 30  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor

<400> 30  
His Gln Glu Gly Arg Tyr Glu Phe Leu  
1 5

<210> 31  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor



<400> 31  
Trp Trp Asp Lys Val Asp Gln Tyr  
1 5

<210> 32  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor

<400> 32  
Glu Asn Tyr Val Thr Lys Lys Leu Val  
1 5

<210> 33  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor

<400> 33  
Glu Asn Tyr Val Thr Lys Lys Leu  
1 5

<210> 34  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Endothelin  
(ETA) Receptor

<400> 34  
Leu Leu Glu Cys Arg Glu Asn Lys Asp  
1 5

<210> 35  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of alpha-1A  
Adrenergic Receptor (AR)

<400> 35

Val Asn Ile Ser Lys Ala Ile Leu Leu Gly  
1 5 10

<210> 36  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of alpha-1A  
Adrenergic Receptor (AR)

<400> 36  
Val Leu Gly Tyr Trp Ala Phe Gly Arg Val Phe Cys  
1 5 10

<210> 37  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of alpha-1A  
Adrenergic Receptor (AR)

<400> 37  
Tyr Trp Ala Phe Gly Arg Val Phe Cys Asn Ile Trp  
1 5 10

<210> 38  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of alpha-1A  
Adrenergic Receptor (AR)

<400> 38  
Phe Gly Trp Arg Gln Pro Ala Pro Glu Asp Glu Thr  
1 5 10

<210> 39  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of alpha-1A  
Adrenergic Receptor (AR)

<400> 39  
Ile Cys Gln Ile Asn Glu Glu Pro Gly Tyr Val Leu

1

5

10

&lt;210&gt; 40

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> peptide derived from the sequence of alpha-1A  
Adrenergic Receptor (AR)

&lt;400&gt; 40

Phe Phe Pro Asp Phe Lys Pro Ser Glu Thr Val Phe

1

5

10

&lt;210&gt; 41

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> peptide derived from the sequence of alpha-1A  
Adrenergic Receptor (AR)

&lt;400&gt; 41

Phe Phe Pro Asp Phe Lys Pro Ser Glu Thr Val Phe

1

5

10

&lt;210&gt; 42

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> peptide derived from the sequence of 5H1A  
Serotonin Receptor (SR)

&lt;400&gt; 42

Gly Ile Ser Asp Val Thr Val Ser Tyr Gln Val Ile

1

5

10

&lt;210&gt; 43

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> peptide derived from the sequence of 5H1A  
Serotonin Receptor (SR)

&lt;400&gt; 43

Val Leu Asn Lys Trp Thr Leu Gly Gln Val Thr Cys

1

5

10

<210> 44  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of 5H1A  
Serotonin Receptor (SR)

<400> 44  
Lys Trp Thr Leu Gly Gln Val Thr Cys Asp Leu Phe  
1 5 10

<210> 45  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of 5H1A  
Serotonin Receptor (SR)

<400> 45  
Leu Gly Trp Arg Thr Pro Glu Asp Arg Ser Asp Pro  
1 5 10

<210> 46  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of 5H1A  
Serotonin Receptor (SR)

<400> 46  
Cys Thr Ile Ser Lys Asp His Gly Tyr Thr Ile Tyr  
1 5 10

<210> 47  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of 5H1A  
Serotonin Receptor (SR)

<400> 47  
Val Leu Pro Phe Cys Glu Ser Ser Cys His Met Pro  
1 5 10

<210> 48  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of 5H1A  
Serotonin Receptor (SR)

<400> 48  
Phe Cys Glu Ser Ser Cys His Met Pro Thr Leu Leu  
1 5 10

<210> 49  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Adenosine A1  
Receptor

<400> 49  
Pro Pro Ser Ile Ser Ala Phe Gln Ala Ala Tyr Ile  
1 5 10

<210> 50  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Adenosine A1  
Receptor

<400> 50  
Leu Ile Asn Ile Gly Pro Gln Thr Tyr Phe His Thr  
1 5 10

<210> 51  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Adenosine A1  
Receptor

<400> 51  
Ile Gly Pro Gln Thr Tyr Phe His Thr Cys Leu Met  
1 5 10

<210> 52  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Adenosine A1  
Receptor

<400> 52  
Trp Asn Asn Leu Ser Ala Val Glu Arg Ala Val  
1 5 10

<210> 53  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Adenosine A1  
Receptor

<400> 53  
Glu Pro Val Ile Lys Cys Glu Phe Glu Lys Val Ile  
1 5 10

<210> 54  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Adenosine A1  
Receptor

<400> 54  
Leu Phe Cys Pro Ser Cys His Lys Pro Ser Ile Leu  
1 5 10

<210> 55  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Adenosine A1  
Receptor

<400> 55  
Leu Phe Cys Pro Ser Cys His Lys Pro Ser Ile Leu  
1 5 10

<210> 56

<211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Melanocortin  
 (MC)4 Receptor  
  
 <400> 56  
 Gly Tyr Ser Asp Gly Gly Cys Tyr Glu Gln Leu Phe  
 1 5 10  
  
 <210> 57  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Melanocortin  
 (MC)4 Receptor  
  
 <400> 57  
 Leu Leu Asn Ser Thr Asp Thr Asp Ala Gln Ser Phe  
 1 5 10  
  
 <210> 58  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Melanocortin  
 (MC)4 Receptor  
  
 <400> 58  
 Ala Gln Ser Phe Thr Val Asn Ile Asp Asn Val Ile  
 1 5 10  
  
 <210> 59  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Melanocortin  
 (MC)4 Receptor  
  
 <400> 59  
 Ile Ile Tyr Ser Asp Ser Ser Ala Val Ile Ile Cys  
 1 5 10  
  
 <210> 60  
 <211> 12

<212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Melanocortin  
 (MC)4 Receptor  
  
 <400> 60  
 Leu Phe Ile Ile Tyr Ser Asp Ser Ser Ala Val Ile  
 1 5 10  
  
 <210> 61  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Melanocortin  
 (MC)4 Receptor  
  
 <400> 61  
 Tyr Ile Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys  
 1 5 10  
  
 <210> 62  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Melanocortin  
 (MC)4 Receptor  
  
 <400> 62  
 Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys Phe Met  
 1 5 10  
  
 <210> 63  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Protease  
 Activated Receptor-2 (PAR-2)  
  
 <400> 63  
 Ala Ser Val Leu Thr Gly Lys Leu Thr Thr Val Phe  
 1 5 10  
  
 <210> 64  
 <211> 12  
 <212> PRT



<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Protease  
Activated Receptor-2 (PAR-2)

<400> 64

Phe Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn  
1 5 10

<210> 65

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Protease  
Activated Receptor-2 (PAR-2)

<400> 65

Asn Trp Ile Tyr Gly Glu Ala Leu Cys Asn Val Leu  
1 5 10

<210> 66

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Protease  
Activated Receptor-2 (PAR-2)

<400> 66

Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala  
1 5 10

<210> 67

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Protease  
Activated Receptor-2 (PAR-2)

<400> 67

Pro Glu Gln Leu Leu Val Gly Asp Met Phe Asn Tyr  
1 5 10

<210> 68

<211> 12

<212> PRT

<213> Artificial Sequence

<220>  
 <223> peptide derived from the sequence of Protease  
 Activated Receptor-2 (PAR-2)  
  
 <400> 68  
 Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln  
 1 5 10  
  
 <210> 69  
 <211> 12  
 <212> PRT  
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 <220>  
 <223> peptide derived from the sequence of Protease  
 Activated Receptor-2 (PAR-2)  
  
 <400> 69  
 Phe Leu Ile Lys Ser Gln Gly Gln Ser His Val Tyr  
 1 5 10  
  
 <210> 70  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
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 <223> peptide derived from the sequence of Metabotropic  
 Glutamate Receptor 1 (MGR1)  
  
 <400> 70  
 Arg Tyr Leu Glu Trp Ser Asn Ile Glu Pro Ile Ile  
 1 5 10  
  
 <210> 71  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide derived from the sequence of Metabotropic  
 Glutamate Receptor 1 (MGR1)  
  
 <400> 71  
 Leu Ile Ala Lys Pro Thr Thr Thr Ser Cys Tyr Leu Gln  
 1 5 10  
  
 <210> 72  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Metabotropic  
Glutamate Receptor 1 (MGR1)

<400> 72  
Pro Thr Thr Thr Ser Cys Tyr Leu Gln Arg Leu Leu  
1 5 10

<210> 73  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Metabotropic  
Glutamate Receptor 1 (MGR1)

<400> 73  
Ile Ile Met Glu Pro Pro Met Pro Ile Leu Ser Tyr  
1 5 10

<210> 74  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Metabotropic  
Glutamate Receptor 1 (MGR1)

<400> 74  
Leu Ile Cys Asn Thr Ser Asn Leu Gly Val Val  
1 5 10

<210> 75  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide derived from the sequence of Metabotropic  
Glutamate Receptor 1 (MGR1)

<400> 75  
Tyr Phe Gly Ser Asn Tyr Lys Ile Ile Thr Thr Cys  
1 5 10

<210> 76  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Metabotropic  
Glutamate Receptor 1 (MGR1)

<400> 76

Phe Gly Ser Asn Tyr Lys Ile Ile Thr Thr Cys Phe  
1 5 10

<210> 77

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide derived from the sequence of Parathyroid  
Hormone (PTH) Receptor

<400> 77

Phe Leu Met Glu Tyr His Met Gln  
1 5

<210> 78

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist derived from the sequence of  
Urotensin Receptor (GPR14)

<221> SITE

<222> (1)...(8)

<223> amino acids 1 to 8 are D-amino acids

<400> 78

Leu Ala Met Arg Leu Val Arg Arg Gly  
1 5

<210> 79

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist derived from the sequence of  
Urotensin Receptor (GPR14)

<221> SITE

<222> (1)...(9)

<223> peptide containing all D-amino acids

<400> 79

Val Ile Arg Ala Thr Arg Pro Ala Leu  
1 5

<210> 80  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist derived from the sequence of  
       Glucagon Receptor  
  
 <221> SITE  
 <222> (1)...(4)  
 <223> Amino acids 1 to 4 are D-amino acids  
  
 <221> SITE  
 <222> (6)...(9)  
 <223> Amino acids 6 to 9 are D-amino acids  
  
 <400> 80  
 Leu Val Ile Asp Gly Leu Leu Arg Thr  
   1                  5  
  
 <210> 81  
 <211> 8  
 <212> PRT  
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 <223> peptide antagonist derived from the sequence of  
       Glucagon Receptor  
  
 <221> SITE  
 <222> (1)...(5)  
 <223> amino acids 1 to 5 are D-amino acids  
  
 <221> SITE  
 <222> (7)...(8)  
 <223> amino acids 7 and 8 are D-amino acids  
  
 <400> 81  
 Ala Ala Val Arg Cys Gly Ala Val  
   1                  5  
  
 <210> 82  
 <211> 8  
 <212> PRT  
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 <220>  
 <223> peptide antagonist derived from the sequence of  
       Glucagon Receptor  
  
 <221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids

<400> 82  
 Phe Val Thr Asp Glu His Ala Gln  
 1 5

<210> 83  
 <211> 8  
 <212> PRT  
 <213> R14Artificial Sequence

<220>  
 <223> peptide antagonist derived from the sequence of  
 R14 Orphan Receptor

<221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids

<400> 83  
 His Ile Ile Cys Ser Pro Leu Arg  
 1 5

<210> 84  
 <211> 9  
 <212> PRT  
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<220>  
 <223> peptide antagonist derived from the sequence of  
 R14 Orphan Receptor

<221> SITE  
 <222> (1)...(9)  
 <223> peptide containing all D-amino acids

<400> 84  
 Ile Phe Phe Asp Ser Thr Glu Cys Trp  
 1 5

<210> 85  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> peptide antagonist derived from the sequence of  
 Platelet Activating Factor (PAF) Receptor

<221> SITE  
 <222> (1)...(5)  
 <223> amino acids 1 to 5 are D-amino acids

<221> SITE  
 <222> (7)...(9)

<223> amino acids 7 to 9 are D-amino acids

<400> 85

Leu Val Pro Val Ser Gly Lys Glu Tyr  
1 5

<210> 86

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist derived from the sequence of  
Parathyroid Hormone Receptor 1 (PTHr1)

<221> SITE

<222> (1)...(8)

<223> peptide containing all D-amino acids

<400> 86

Phe Leu Met Glu Tyr His Met Gln  
1 5

<210> 87

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist derived from the sequence of  
Endothelin Receptor

<221> SITE

<222> (1)...(7)

<223> amino acids 1 to 7 are D-amino acids

<400> 87

Phe Leu Lys Cys Leu Phe Val Gly  
1 5

<210> 88

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist derived from the sequence of  
Endothelin Receptor

<221> SITE

<222> (1)...(8)

<223> peptide containing all D-amino acids

<400> 88

Trp Trp Asp Lys Val Asp Gln Tyr  
1 5

<210> 89  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist derived from the sequence of  
Endothelin Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 89  
Glu Asn Tyr Val Thr Lys Lys Leu  
1 5

<210> 90  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on sequence of  
prostaglandin F2-alpha receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 90  
Tyr Gln Asp Arg Phe Tyr Leu Leu  
1 5

<210> 91  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on sequence of  
prostaglandin F2-alpha receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 91  
Ile Leu Gly His Arg Asp Tyr Lys  
1 5



<210> 92  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
       prostaglandin F2-alpha receptor  
  
 <221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids

<400> 92  
 Ile Leu Ala His Arg Asp Tyr Lys  
   1                  5

<210> 93  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
       prostaglandin F2-alpha receptor  
  
 <221> SITE  
 <222> (1)...(2)  
 <223> amino acids at positions 1 and 2 are D-amino acids  
  
 <221> SITE  
 <222> (4)...(8)  
 <223> amino acids from positions 4 to 8 are D-amino  
       acids

<400> 93  
 Ile Leu Ala His Arg Asp Tyr Lys  
   1                  5

<210> 94  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
       prostaglandin F2-alpha receptor  
  
 <221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids

<400> 94  
 Ile Leu Gly Phe Arg Asp Tyr Lys

1

5

<210> 95  
<211> 8  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on sequence of  
          prostaglandin F2-alpha receptor  
  
<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids  
  
<400> 95  
Ile Leu Gly His Lys Asp Tyr Lys  
1                          5

<210> 96  
<211> 8  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on sequence of  
          prostaglandin F2-alpha receptor  
  
<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids  
  
<400> 96  
Ile Leu Gly His Lys Asn Tyr Lys  
1                          5

<210> 97  
<211> 8  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on sequence of  
          prostaglandin F2-alpha receptor  
  
<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids  
  
<400> 97  
Ile Leu Gly His Gln Asp Tyr Lys  
1                          5

<210> 98  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on sequence of  
prostaglandin F2-alpha receptor

<221> AMIDATION  
<222> (7)...(7)  
<223> The hydroxy group of the amino acid at position 7  
has been changed to an amine

<221> SITE  
<222> (1)...(7)  
<223> peptide containing all D-amino acids

<400> 98  
Ile Leu Gly His Arg Asp Tyr  
1 5

<210> 99  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on sequence of  
prostaglandin F2-alpha receptor

<221> AMIDATION  
<222> (8)...(8)  
<223> The hydroxy group of the amino acid at position 8  
has been changed to an amine

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 99  
Ile Leu Gly His Arg Asp Tyr Lys  
1 5

<210> 100  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on sequence of  
prostaglandin F2-alpha receptor

<221> SITE

<222> (1)...(8)  
 <223> peptide containing all D-amino acids  
  
 <400> 100  
 Ile Leu Gly Trp Arg Asp Tyr Lys  
 1 5  
  
 <210> 101  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
 prostaglandin F2-alpha receptor  
  
 <221> SITE  
 <222> (4)...(4)  
 <223> Xaa at position 4 is a cyclohexyl alanine  
  
 <221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids  
  
 <400> 101  
 Ile Leu Gly Xaa Arg Asp Tyr Lys  
 1 5  
  
 <210> 102  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
 prostaglandin F2-alpha receptor  
  
 <221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids  
  
 <400> 102  
 Ser Asn Val Leu Cys Ser Ile Phe  
 1 5  
  
 <210> 103  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
 prostaglandin F2-alpha receptor

<221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids  
  
 <400> 103  
 Trp Glu Asp Arg Phe Tyr Leu Leu  
 1 5  
  
 <210> 104  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
 prostaglandin F2-alpha receptor  
  
 <221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids  
  
 <400> 104  
 Ile Leu Gly His Arg Asn Tyr Lys  
 1 5  
  
 <210> 105  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
 prostaglandin F2-alpha receptor  
  
 <221> SITE  
 <222> (1)...(7)  
 <223> peptide containing all D-amino acids  
  
 <400> 105  
 Ile Leu Gly His Arg Asp Tyr  
 1 5  
  
 <210> 106  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on sequence of  
 Urotensin receptor  
  
 <221> SITE  
 <222> (1)...(9)  
 <223> peptide containing all D-amino acids

<400> 106  
Leu Ala Met Arg Leu Val Arg Arg Gly  
1 5

<210> 107  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Glucagon Receptor

<221> SITE  
<222> (1)...(9)  
<223> peptide containing all D-amino acids

<400> 107  
Leu Val Ile Asp Gly Leu Leu Arg Thr  
1 5

<210> 108  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Glucagon Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 108  
Ala Ala Val Arg Cys Gly Ala Val  
1 5

<210> 109  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Platelet Activating Factor (PAF) Receptor

<221> SITE  
<222> (1)...(9)  
<223> peptide containing all D-amino acids

<400> 109  
Leu Val Pro Val Ser Gly Lys Glu Tyr  
1 5

<210> 110  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Platelet Activating Factor (PAF) Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 110  
Phe Leu Thr Tyr Arg Phe Glu Ser  
1 5

<210> 111  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Platelet Activating Factor (PAF) Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 111  
Asn Gly Gln Asn Gln Tyr Tyr Val  
1 5

<210> 112  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Platelet Activating Factor (PAF) Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 112  
Gly Ala Val Asn Cys Leu Phe Lys  
1 5

<210> 113  
<211> 8  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on the sequence of  
Platelet Activating Factor (PAF) Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 113  
Val Thr Asn Thr Ser Asp Leu Val  
1 5

<210> 114  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Platelet Activating Factor (PAF) Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 114  
Leu Glu Ala Leu Thr Trp Pro Leu  
1 5

<210> 115  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Platelet Activating Factor (PAF) Receptor

<221> SITE  
<222> (1)...(9)  
<223> peptide containing all D-amino acids

<400> 115  
Leu Cys Leu Thr Val Gln His Ala Asp  
1 5



<210> 116  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
 Endothelin (ETA) Receptor

<221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids

<400> 116  
 Asn Ile Tyr Lys Phe Ala Ser Thr  
 1 5

<210> 117  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
 Endothelin (ETA) Receptor

<221> SITE  
 <222> (1)...(10)  
 <223> peptide containing all D-amino acids

<400> 117  
 Lys Phe Val Asn Ile Pro Leu Asp Ile Val  
 1 5 10

<210> 118  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
 Endothelin(ETA) Receptor

<221> SITE  
 <222> (1)...(8)  
 <223> peptide containing all D-amino acids

<400> 118  
 Phe Leu Lys Cys Leu Phe Val Gly  
 1 5

<210> 119  
<211> 9  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on the sequence of  
Endothelin(ETA) Receptor

<221> SITE  
<222> (1)...(9)  
<223> peptide containing all D-amino acids

<400> 119  
His Gln Glu Gly Arg Tyr Glu Phe Leu  
1 5

<210> 120  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Endothelin(ETA) Receptor

<221> SITE  
<222> (1)...(8)  
<223> peptide containing all D-amino acids

<400> 120  
Glu Asn Tyr Val Thr Lys Lys Leu  
1 5

<210> 121  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Endothelin (ETA) Receptor

<221> SITE  
<222> (1)...(9)  
<223> peptide containing all D-amino acids

<400> 121  
Leu Leu Glu Cys Arg Glu Asn Lys Asp  
1 5

<210> 122  
<211> 10  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on the sequence of  
alpha-1A Adrenergic Receptor (AR)

<221> SITE  
<222> (1)...(10)  
<223> peptide containing all D-amino acids

<400> 122  
Val Asn Ile Ser Lys Ala Ile Leu Leu Gly  
1 5 10

<210> 123  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
alpha-1A Adrenergic Receptor (AR)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 123  
Val Leu Gly Tyr Trp Ala Phe Gly Arg Val Phe Cys  
1 5 10

<210> 124  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
alpha-1A Adrenergic Receptor (AR)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 124  
Tyr Trp Ala Phe Gly Arg Val Phe Cys Asn Ile Trp  
1 5 10

<210> 125  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
       alpha-1A Adrenergic Receptor (AR)

<221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 125  
 Phe Gly Trp Arg Gln Pro Ala Pro Glu Asp Glu Thr  
   1                  5                  10

<210> 126  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> peptide antagonist based on the sequence of  
       alpha-1A Adrenergic Receptor (AR)

<221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 126  
 Ile Cys Gln Ile Asn Glu Glu Pro Gly Tyr Val Leu  
   1                  5                  10

<210> 127  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> peptide antagonist based on the sequence of  
       alpha-1A Adrenergic Receptor (AR)

<221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 127  
 Phe Phe Pro Asp Phe Lys Pro Ser Glu Thr Val Phe  
   1                  5                  10

<210> 128  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
       alpha-1A Adrenergic Receptor (AR)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 128  
 Phe Phe Pro Asp Phe Lys Pro Ser Glu Thr Val Phe  
   1                  5                  10  
  
 <210> 129  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of 5H1A  
       Serotonin Receptor (SR)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 129  
 Gly Ile Ser Asp Val Thr Val Ser Tyr Gln Val Ile  
   1                  5                  10  
  
 <210> 130  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of 5H1A  
       Serotonin Receptor (SR)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 130  
 Val Leu Asn Lys Trp Thr Leu Gly Gln Val Thr Cys  
   1                  5                  10  
  
 <210> 131

<211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of 5H1A  
       Serotonin Receptor (SR)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 131  
 Lys Trp Thr Leu Gly Gln Val Thr Cys Asp Leu Phe  
   1                  5                  10  
  
  
 <210> 132  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
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 <223> peptide antagonist based on the sequence of 5H1A  
       Serotonin Receptor (SR)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 132  
 Leu Gly Trp Arg Thr Pro Glu Asp Arg Ser Asp Pro  
   1                  5                  10  
  
  
 <210> 133  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of 5H1A  
       Serotonin Receptor (SR)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 133  
 Cys Thr Ile Ser Lys Asp His Gly Tyr Thr Ile Tyr  
   1                  5                  10  
  
  
 <210> 134  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of 5H1A  
Serotonin Receptor (SR)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 134  
Val Leu Pro Phe Cys Glu Ser Ser Cys His Met Pro  
1 5 10

<210> 135  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of 5H1A  
Serotonin Receptor (SR)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 135  
Phe Cys Glu Ser Ser Cys His Met Pro Thr Leu Leu  
1 5 10

<210> 136  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Adenosine A1 Receptor

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 136  
Pro Pro Ser Ile Ser Ala Phe Gln Ala Ala Tyr Ile  
1 5 10

<210> 137  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of

# Adenosine A1 Receptor

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids  
  
<400> 137  
Leu Ile Asn Ile Gly Pro Gln Thr Tyr Phe His Thr  
1 5 10  
  
<210> 138  
<211> 12  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on the sequence of  
Adenosine A1 Receptor  
  
<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids  
  
<400> 138  
Ile Gly Pro Gln Thr Tyr Phe His Thr Cys Leu Met  
1 5 10  
  
<210> 139  
<211> 11  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on the sequence of  
Adenosine A1 Receptor  
  
<221> SITE  
<222> (1)...(11)  
<223> peptide containing all D-amino acids  
  
<400> 139  
Trp Asn Asn Leu Ser Ala Val Glu Arg Ala Val  
1 5 10  
  
<210> 140  
<211> 12  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> peptide antagonist based on the sequence of  
Adenosine A1 Receptor  
  
<221> SITE



<222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 140  
 Glu Pro Val Ile Lys Cys Glu Phe Glu Lys Val Ile  
 1 5 10  
  
 <210> 141  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
 Adenosine A1 Receptor  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 141  
 Leu Phe Cys Pro Ser Cys His Lys Pro Ser Ile Leu  
 1 5 10  
  
 <210> 142  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
 Adenosine A1 Receptor  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 142  
 Leu Phe Cys Pro Ser Cys His Lys Pro Ser Ile Leu  
 1 5 10  
  
 <210> 143  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
 Melanocortin (MC) 4 Receptor  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 143  
Gly Tyr Ser Asp Gly Gly Cys Tyr Glu Gln Leu Phe  
1 5 10

<210> 144  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Melanocortin (MC) 4 Receptor

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 144  
Leu Leu Asn Ser Thr Asp Thr Asp Ala Gln Ser Phe  
1 5 10

<210> 145  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Melanocortin (MC) 4 Receptor

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 145  
Ala Gln Ser Phe Thr Val Asn Ile Asp Asn Val Ile  
1 5 10

<210> 146  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Melanocortin (MC) 4 Receptor

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 146  
Ile Ile Tyr Ser Asp Ser Ser Ala Val Ile Ile Cys  
1 5 10

<210> 147  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
         Melanocortin (MC) 4 Receptor  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 147  
 Leu Phe Ile Ile Tyr Ser Asp Ser Ser Ala Val Ile  
 1                      5                      10

<210> 148  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
         Melanocortin (MC) 4 Receptor  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 148  
 Tyr Ile Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys  
 1                      5                      10

<210> 149  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
         Melanocortin (MC) 4 Receptor  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 149  
 Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys Phe Met  
 1                      5                      10

<210> 150

<211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> peptide antagonist based on the sequence of  
       Protease Activated Receptor-2 (PAR-2)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 150  
 Ala Ser Val Leu Thr Gly Lys Leu Thr Thr Val Phe  
   1                  5                  10  
  
  
 <210> 151  
 <211> 12  
 <212> PRT  
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       Protease Activated Receptor-2 (PAR-2)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 151  
 Phe Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn  
   1                  5                  10  
  
  
 <210> 152  
 <211> 12  
 <212> PRT  
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       Protease Activated Receptor-2 (PAR-2)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 152  
 Asn Trp Ile Tyr Gly Glu Ala Leu Cys Asn Val Leu  
   1                  5                  10  
  
  
 <210> 153  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Protease Activated Receptor-2 (PAR-2)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 153  
Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala  
1 5 10

<210> 154  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Protease Activated Receptor-2 (PAR-2)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 154  
Pro Glu Gln Leu Leu Val Gly Asp Met Phe Asn Tyr  
1 5 10

<210> 155  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Protease Activated Receptor-2 (PAR-2)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 155  
Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln  
1 5 10

<210> 156  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of

Protease Activated Receptor-2 (PAR-2)

<221> SITE

<222> (1)...(12)

<223> peptide containing all D-amino acids

<400> 156

Phe Leu Ile Lys Ser Gln Gly Gln Ser His Val Tyr  
1 5 10

<210> 157

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist based on the sequence of  
Metabotropic Glutamate Receptor (MGR1)

<221> SITE

<222> (1)...(12)

<223> peptide containing all D-amino acids

<400> 157

Arg Tyr Leu Glu Trp Ser Asn Ile Glu Pro Ile Ile  
1 5 10

<210> 158

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist based on the sequence of  
Metabotropic Glutamate Receptor (MGR1)

<221> SITE

<222> (1)...(13)

<223> peptide containing all D-amino acids

<400> 158

Leu Ile Ala Lys Pro Thr Thr Thr Ser Cys Tyr Leu Gln  
1 5 10

<210> 159

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide antagonist based on the sequence of  
Metabotropic Glutamate Receptor (MGR1)

<221> SITE

<222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 159  
 Pro Thr Thr Thr Ser Cys Tyr Leu Gln Arg Leu Leu  
 1 5 10  
  
 <210> 160  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
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 Metabotropic Glutamate Receptor (MGR1)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids  
  
 <400> 160  
 Ile Ile Met Glu Pro Pro Met Pro Ile Leu Ser Tyr  
 1 5 10  
  
 <210> 161  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence  
  
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 Metabotropic Glutamate Receptor (MGR1)  
  
 <221> SITE  
 <222> (1)...(11)  
 <223> peptide containing all D-amino acids  
  
 <400> 161  
 Leu Ile Cys Asn Thr Ser Asn Leu Gly Val Val  
 1 5 10  
  
 <210> 162  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence  
  
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 Metabotropic Glutamate Receptor (MGR1)  
  
 <221> SITE  
 <222> (1)...(12)  
 <223> peptide containing all D-amino acids

<400> 162  
Tyr Phe Gly Ser Asn Tyr Lys Ile Ile Thr Thr Cys  
1 5 10

<210> 163  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> peptide antagonist based on the sequence of  
Metabotropic Glutamate Receptor (MGR1)

<221> SITE  
<222> (1)...(12)  
<223> peptide containing all D-amino acids

<400> 163  
Phe Gly Ser Asn Tyr Lys Ile Ile Thr Thr Cys Phe  
1 5 10